

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/013097

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B22F3/105

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B22F B23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 391 251 B1 (KEICHER DAVID M ET AL) 21 May 2002 (2002-05-21)	1-3,6, 9-14, 16-19, 21,24-30
Y	column 5, line 56 - column 6, line 26 column 6, line 66 - column 7, last line column 13, line 13 - column 14, line 3 column 15, line 46 - line 59 column 16, line 32 - line 49 column 18, line 22 - column 19, line 3 column 25, line 52 - line 62 column 28, line 26 - column 29, line 41 figures 3,4,6-11,27-33,42-45  -/-	4,5,22

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the international search

29 August 2005

Date of mailing of the international search report

05/09/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/56736 A (OPTOMECH DESIGN COMPANY; KEICHER, DAVID, M; BULLEN, JAMES, L) 9 August 2001 (2001-08-09)	1-3, 6-13, 17-21, 23-30
Y	abstract page 2, line 28 - page 3, line 11 page 3, line 27 - page 4, line 12 page 5, line 7 - page 8, line 20 page 9, line 5 - page 11, line 7 page 12, line 11 - line 14 figure 1	4,5,22
Y	----- "EOS brings very fine laser build powders to the UK" METAL POWDER REPORT, MPR PUBLISHING SERVICES, SHREWSBURY, GB, vol. 58, no. 9, September 2003 (2003-09), page 13, XP004454476 ISSN: 0026-0657 the whole document	4,5
Y	----- DE 200 20 614 U1 (LZH LASERZENTRUM HANNOVER E.V) 8 March 2001 (2001-03-08) cited in the application claims; figures	22
X	----- US 2001/008230 A1 (KEICHER DAVID M ET AL) 19 July 2001 (2001-07-19)  abstract paragraph '0017! paragraph '0036! - paragraph '0045! paragraph '0051! paragraph '0080! - paragraph '0106! figures	1-3,6, 8-13, 17-19, 21,24, 25,30
X	----- WO 93/00171 A (GEBRUEDER SULZER AKTIENGESELLSCHAFT) 7 January 1993 (1993-01-07) page 3, line 15 - page 5, line 20 claims; figures	14-16,19
P,X	----- WO 2004/091834 A (PETAEJAEJAERVI, AILA; JOKELAINEN, KIMMO) 28 October 2004 (2004-10-28) page 4, line 16 - page 6, line 22 page 7, line 21 - page 8, line 21 figures  ----- -/--	17-19, 24,25, 29,30

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PCT/EP2004/013097

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	<p>SIMCHI A: "THE ROLE OF PARTICLE SIZE ON THE LASER SINTERING OF IRON POWDER" METALLURGICAL AND MATERIALS TRANSACTIONS B: PROCESS METALLURGY &amp; MATERIALS PROCESSING SCIENCE, THE MATERIALS INFORMATION SOCIETY, US, vol. 35B, no. 5, October 2004 (2004-10), pages 937-948, XP001214017 ISSN: 1073-5623 abstract page 938, left-hand column, paragraph 2 page 944, right-hand column, paragraph C - page 946 page 947, paragraph V figures 14-18; table 1</p>	1-13

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/013097

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6391251	B1	21-05-2002	AU 6101801 A	20-11-2001
			WO 0185386 A2	15-11-2001
			US 2003206820 A1	06-11-2003
			US 2005133527 A1	23-06-2005
			AU 6747100 A	22-01-2001
			WO 0102160 A1	11-01-2001
			US 6656409 B1	02-12-2003
WO 0156736	A	09-08-2001	AU 4796101 A	14-08-2001
			WO 0156736 A2	09-08-2001
DE 20020614	U1	08-03-2001	NONE	
US 2001008230	A1	19-07-2001	US 6046426 A	04-04-2000
WO 9300171	A	07-01-1993	DE 4120790 A1	14-01-1993
			AT 141833 T	15-09-1996
			WO 9300171 A1	07-01-1993
			DE 59207001 D1	02-10-1996
			EP 0549747 A1	07-07-1993
			JP 6503040 T	07-04-1994
			US 5321228 A	14-06-1994
WO 2004091834	A	28-10-2004	FI 20030570 A	16-10-2004
			WO 2004091834 A1	28-10-2004